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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/016,224	11/01/2001	Shunpei Yamazaki	07977/288001/US5290/5981 2987	
	90 07/01/2004		EXAMINER	
FISH & RICHARDSON P.C. 1425 K STREET, N.W. 11TH FLOOR WASHINGTON, DC 20005-3500			TANG, SON M	
			ART UNIT	PAPER NUMBER
			2632 DATE MAIL FD: 07/01/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
Office Action Summary		10/016,224	YAMAZAKI, SHUNPEI				
		Examiner	Art Unit				
		Son M Tang	2632				
The MAILII Period for Reply	NG DATE of this communication app	ears on the cover sheet with the o	correspondence address				
- Extensions of time may after SIX (6) MONTHS - If the period for reply is If NO period for reply is Failure to reply within the Any reply received by the second second second second second second second second second sec	STATUTORY PERIOD FOR REPLY ITE OF THIS COMMUNICATION. To be available under the provisions of 37 CFR 1.13 from the mailing date of this communication. pecified above is less than thirty (30) days, a reply is specified above, the maximum statutory period whe set or extended period for reply will, by statute, the Office later than three months after the mailing ustrment. See 37 CFR 1.704(b).	6(a). In no event, however, may a reply be tin within the statutory minimum of thirty (30) day ill apply and will expire SIX (6) MONTHS from	nely filed s will be considered timely. the mailing date of this communication.				
Status							
1) Responsive	to communication(s) filed on						
2a) ☐ This action i		- action is non-final					
3)☐ Since this a							
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claim		,					
4)⊠ Claim(s) 1-6	8 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-68</u> is/are rejected.							
	- 🗖						
8) Claim(s)	8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers							
9) The specifica	tion is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.85(a).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
		The state of the s	7.6.1611 01 1011111 10-192.				
Priority under 35 U.S.	-						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) ☐ All b) ☐ Some * c) ☐ None of:							
1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage							
	ation from the International Bureau						
" See the attach	ed detailed Office action for a list of	the certified copies not received	1.				
Attachment(s)							
1) Notice of References (Sited (PTO_802)	4 , □					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date.							
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5) Notice of Informal Patent Application (PTO-152)							
U.S. Patent and Trademark Office	·	6)					
PTOL-326 (Rev. 1-04)	Office Actio	on Summary Pa	art of Paper No /Mail Date 061504				

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DETAILED ACTION

Claim Rejections - 35 USC § 102

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 1. Claims 1-4, 17-19, 21-22, 24-25 and 27-29 are rejected under 35 U.S.C. 102(e) as being anticipated by Lange et al. [US 6,642,840].

Regarding to claims 1-4: Lange et al. disclose a vehicle comprising:

-a side mirror [26] and back mirror [24];

-a camera [8];

-a display device [6] mounted in the side mirror 26 and back mirror 24, wherein the display device displays information read from the camera [shown in Fig. 1-6, col. 3, lines 40-54, and col. 4, lines 37-50].

Regarding to claims 17-19, 21-22, 24-25, and 27-19: Lange et al. further disclose a LCD display and wherein a half mirror is provide in the side mirror [cited in col. 3, lines 55-62].

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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3. Claims 20, 23, 26, 30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lang et al. [US 6,642,840] in view of Lin [US 5,956,181].

Regarding to claims 20, 23, 26, and 30: Lang et al. disclose all the limitation as described above, Lang et al. does not specify that the display is an electroluminescent display device. It is clear that, electroluminescent display device is a known device which broadly use for displaying image, Line teaches a rear view mirror and video display comprises a electroluminescent display [2] (cited in col. 4, lines 14-16]. It would have been obvious of one having ordinary skill in the art to at the time the invention was made, to employ an electroluminescent display as taught by Line, into the system of Lang et al. for the advantage of be able to view both mirror and video display.

4. Claims 5-10 and 31-33, 35-37, 39-40, 42-43, 45-46 and 48-49 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lang et al. [US 6,642,840] in view of Yang [US 2002/0154007].

Regarding to claims 5-10: Lange et al. disclose a vehicle comprising:

- -a side mirror [26] and back mirror [24];
- -a camera [8];
- -a display device [6] mounted in the side mirror 26 and back mirror 24, wherein the display device displays information read from the camera [shown in Fig. 1-6, col. 3, lines 40-54, and col. 4, lines 37-50].

Lang et al. does not specify a central processing unit for processing video signal, distance sensor signal and a control circuit for displaying at a display device.

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It is known in the art that, most video image signal from camera or sensor signal must be processed prior to output display, Yang teaches car reverse alerting and multi-functional display, which comprises a central processing unit 351, which processing video signal from camera, distance sensor [23], and wherein the control circuit is obviously included in the central processing unit, for controlling the output signal to display device [as shown in Fig. 2-4, ¶ 0017 and 0019]. It would have been obvious of one having ordinary skill in the art at the time the invention was made to have a central processing unit and distance sensor as taught by Yang, into the system of Lang et al. for the benefit of be able to process multiple input from multiple safety devices.

Regarding to claims 31-33, 35-37, 39-40, 42-43, 45-46 and 48-49: Lang et al. disclose all the limitation as described above, Lang et al. further disclose a camera 8, LCD display and wherein a half mirror is provide in the side mirror [cited in col. 3, lines 55-62].

5. Claims 34, 38, 41, 44, 47 and 50 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lang et al. [US 6,642,840] in view of Yang [US 2002/0154007], and further in view of Lin [US 5,956,181].

Regarding to claims 34, 38, 41, 44, 47 and 50: Lang et al. disclose all the limitation as described above, Lang et al. does not specify that the display is an electroluminescent display device. It is clear that, electroluminescent display device is a known device which broadly use for displaying image, Line teaches a rear view mirror and video display comprises a electroluminescent display [2] (cited in col. 4, lines 14-16]. It would have been obvious of one having ordinary skill in the art to at the time the invention was made, to employ an

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electroluminescent display as taught by Line, into the system of Lang et al. for the advantage of be able to view both mirror and video display.

6. Claims 11-12, 51-52 and 54-55 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lang et al. [US 6,642,840] in view of Keith [US 5,847,643].

Regarding to claims 11-12: Lang et al. disclose a vehicle comprising:

-a side mirror [26] and back mirror [24];

-a display device [6] mounted in the side mirror 26 and back mirror 24, wherein the display device displays information read from the camera [shown in Fig. 1-6, col. 3, lines 40-54, and col. 4, lines 37-50].

Lange fails to specify that vehicle comprises an impact sensor.

Keith teaches a vehicle comprising an impact sensor 50, for detecting vehicle impact with other objects and signaling driver [see Fig. 1-5, and Abstract]. Since, impact sensor is one of a safety device for vehicle, therefore, it would have been obvious of one having ordinary skill in the art at the time the invention was made to employ an impact sensor as taught by Keith into the system of Lang et al. for increasing safety.

Regarding to claims 51-52 and 54-55: Lange et al. further disclose a LCD display and wherein a half mirror is provide in the side mirror [cited in col. 3, lines 55-62].

7. Claims 53 and 56 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lang et al. [US 6,642,840] in view of Keith [US 5,847,643] and further in view of Lin [US 5,956,181].

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Regarding to claims 53 and 56: Lang et al. and Keith disclose all the limitation as described above, Lang et al. does not specify that the display is an electroluminescent display device. It is clear that, electroluminescent display device is a known device which broadly use for displaying image, Line teaches a rear view mirror and video display comprises a electroluminescent display [2] (cited in col. 4, lines 14-16]. It would have been obvious of one having ordinary skill in the art to at the time the invention was made, to employ an electroluminescent display as taught by Line, into the system of Lang et al. and Keith for the advantage of be able to view both mirror and video display.

8. Claims 13-16, 57-58, 60-61, 63-64 and 66-67 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lang et al. [US 6,642,840] in view of Keith [US 5,847,643], and further in view of Yang [US 2002/0154007].

Regarding to claims 13-16: Lange et al. disclose a vehicle comprising:

- -a side mirror [26] and back mirror [24];
- -a camera [8];
- -a display device [6] mounted in the side mirror 26 and back mirror 24, wherein the display device displays information read from the camera [shown in Fig. 1-6, col. 3, lines 40-54, and col. 4, lines 37-50].

Lang et al. does not specify an impact sensor for sensing an impact;

Keith teaches a vehicle comprising an impact sensor 50, for detecting vehicle impact with other objects and signaling driver [see Fig. 1-5, and Abstract]. Since, impact sensor is one of a safety device for vehicle, therefore, it would have been obvious of one having ordinary skill in

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the art at the time the invention was made to employ an impact sensor as taught by Keith into the system of Lang et al. for increasing safety.

Lang et al. does not specify a central processing unit for processing video signal, distance sensor signal, impact signal, microphone signal and a control circuit for displaying a warning based at a display device.

It is known in the art that, most sensing signals including (video, distance, impact and microphone) must be determined at central processor prior to output at display, Yang teaches car reverse alerting and multi-functional display, which comprises a central processing unit 351, which for processing all sensing feature of vehicle (such as CCD, microphone, distance sensor etc.) [as shown in Fig. 2-3], and wherein the control circuit is obviously included in the central processing unit, for controlling the output signal to display device [as shown in Fig. 2-4, ¶ 0017 and 0019]. It would have been obvious of one having ordinary skill in the art at the time the invention was made to have a central processing unit as taught by Yang, into the combination system above, for the benefit of be able to process multiple input from a plurality safety devices.

Regarding to claims 57-58, 60-61, 63-64, 66-67: Lange et al. further disclose a LCD display and wherein a half mirror is provide in the side mirror [cited in col. 3, lines 55-62].

9. Claims 59, 62, 65 and 68 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lang et al. [US 6,642,840], Keith [US 5,847,643] in view of Yang [US 2002/0154007], and further in view of Lin [US 5,956,181].

Regarding to claims 59, 62, 65 and 68: Lang et al. and the combination, disclose all the limitation as described above, they are not specify that the display is an electroluminescent

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display device. It is clear that, electroluminescent display device is a known device which broadly use for displaying image, Line teaches a rear view mirror and video display comprises a electroluminescent display [2] (cited in col. 4, lines 14-16]. It would have been obvious of one having ordinary skill in the art to at the time the invention was made, to employ an electroluminescent display as taught by Line, into the system of combination above, for the advantage of be able to view both mirror image and video display.

Conclusion

10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Iwama [US 5,634,709] and Gutta et al. [US 6,424,273].

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Son M Tang whose telephone number is (703)306-5970. The examiner can normally be reached on 4/9 First Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Daniel J Wu can be reached on (703)308-6730. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Son Tang

TOAN N. PHAM PRIMARY EXAMINE Wanyhan 6/25/04